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SEQUENCE LISTING



<120> ISOLATED HUMAN DRUG-METABOLIZING
 PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
 DRUG-METABOLIZING PROTEINS,
 AND USES THEREOF



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Tyr Pro Pro Gly Pro Leu Pro Leu Pro Gly Leu Gly Asn Leu Leu His
                           40
Val Asp Phe Gln Asn Thr Pro Tyr Cys Phe Asp Gln Leu Arg Arg Arg
                       55
Phe Gly Asp Val Phe Ser Leu Gln Leu Ala Trp Thr Pro Val Val
                   70
Leu Asn Gly Leu Ala Ala Val Arg Glu Ala Leu Val Thr His Gly Glu
               85
                                   90
Asp Thr Ala Asp Arg Pro Pro Val Pro Ile Thr Gln Ile Leu Gly Phe
Gly Pro Arg Ser Gln Gly Val Phe Leu Ala Arg Tyr Gly Pro Ala Trp
                                               125
                           120
Arg Glu Gln Arg Arg Phe Ser Val Ser Thr Leu Arg Asn Leu Gly Leu
                                           140
Gly Lys Lys Ser Leu Glu Gln Trp Val Thr Glu Glu Ala Ala Cys Leu
                                                           160
                   150
                                       155
Cys Ala Ala Phe Ala Asn His Ser Gly Arg Pro Phe Arg Pro Asn Gly
               165
                                   170
Leu Leu Asp Lys Ala Val Ser Asn Val Ile Ala Ser Leu Thr Cys Gly
                                                   190
           180
                               185
Arg Arg Phe Glu Tyr Asp Asp Pro Arg Phe Leu Arg Leu Leu Asp Leu
                                               205
       195
                           200
Ala Gln Glu Gly Leu Lys Glu Glu Ser Gly Phe Leu Arg Glu Val Leu
                       215
                                           220
Asn Ala Val Pro Val Leu Leu His Ile Pro Ala Leu Ala Gly Lys Val
225
                   230
                                       235
                                                           240
Leu Arg Phe Gln Lys Ala Phe Leu Thr Gln Leu Asp Glu Leu Leu Thr
Glu His Arg Met Thr Trp Asp Pro Ala Gln Pro Pro Arg Asp Leu Thr
                                                   270
           260
                               265
Glu Ala Phe Leu Ala Glu Met Glu Lys Ala Lys Gly Asn Pro Glu Ser
```

ctttgtgaag ccggaggeet teetgeettt eteageaggt geetgtgggg ageeeggete 9480

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275
                            280
                                                285
Ser Phe Asn Asp Glu Asn Leu Arg Ile Val Val Ala Asp Leu Phe Ser
                      `295
                                            300
Ala Gly Met Val Thr Thr Ser Thr Thr Leu Ala Trp Gly Leu Leu
                    310
                                        315
Met Ile Leu His Pro Asp Val Gln Arg Arg Val Gln Gln Glu Ile Asp
                                    330
                325
Asp Val Ile Gly Gln Val Arg Arg Pro Glu Met Gly Asp Gln Ala His
            340
                                345
Met Pro Tyr Thr Thr Ala Val Ile His Glu Val Gln Arg Phe Gly Asp
                            360
Ile Val Pro Leu Gly Val Thr His Met Thr Ser Arg Asp Ile Glu Val
                        375
                                            380
Gln Gly Phe Arg Ile Pro Lys Gly Thr Thr Leu Ile Thr Asn Leu Ser
                    390
                                        395
Ser Val Leu Lys Asp Glu Ala Val Trp Glu Lys Pro Phe Arg Phe His
                405
                                    410
Pro Glu His Phe Leu Asp Ala Gln Gly His Phe Val Lys Pro Glu Ala
            420
                                425
                                                    430
Phe Leu Pro Phe Ser Ala Gly Arg Arg Ala Cys Leu Gly Glu Pro Leu
                            440
Ala Arg Met Glu Leu Phe Leu Phe Phe Thr Ser Leu Leu Gln His Phe
                        455
                                            460
Ser Phe Ser Val Pro Thr Gly Gln Pro Arg Pro Ser His His Gly Val
                    470
                                        475
Phe Ala Phe Leu Val Ser Pro Ser Pro Tyr Glu Leu Cys Ala Val Pro
                                    490
                485
Arg
```